

**Europäisches Patentamt** 

**European Patent Office** 

Office européen des brevets



EP 0 969 164 A3 (11)

(12)

## **EUROPEAN PATENT APPLICATION**

- (88) Date of publication A3:
- 02.02.2000 Bulletin 2000/05
- (43) Date of publication A2: 05.01.2000 Bulletin 2000/01
- (21) Application number: 99203328.2
- (22) Date of filing: 29.04.1994
- (84) Designated Contracting States: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
- (30) Priority: 10.05.1993 SE 9301595
- (62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC: 99202903.3 / 0 969 163 98201555.4 / 0 877 130
- (71) Applicant: Välinge Aluminium AB 260 40 Viken (SE)
- (72) Inventor: Pervan, Tony 170 72 Solna (SE)

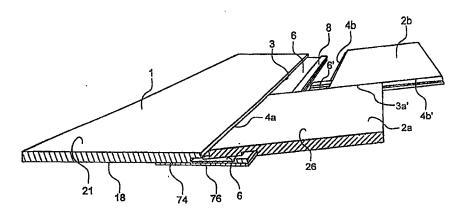
(51) Int. Cl.7: **E04F 15/04** 

(74) Representative: Giver, Sören Bo Awapatent AB, P.O. Box 5117 200 71 Malmö (SE)

## A method for laying and mechanically joining floor panels and a method for producing a (54)

- (57)The invention relates to a system for laying and mechanically joining building panels, especially thin, hard, floating floors. Adjacent joint edges (3, 4) of two panels (1, 2) engage each other to provide a first mechanical connection locking the joint edges (3, 4) in a first direction (D1) perpendicular to the principal plane of the panels. In each joint, there is further provided a strip (6) which is integrated with one joint edge (3) and which projects behind the other joint edge (4). The strip
- (6) has an upwardly protruding locking element (8) engaging in a locking groove (14) in the rear side (16) of the other joint edge (4) to form a second mechanical connection locking the panels (1, 2) in a second direction (D2) parallel to the principal plane of the panels and at right angles to the joint. Both the first and the second mechanical connection allow mutual displacement of joined panels (1, 2) in the direction of the joint.







## **EUROPEAN SEARCH REPORT**

Application Number EP 99 20 3328

	Citation of document with ind	RED TO BE RELEVANT	Relevant	CLASSIFICATION OF THE
Category	of relevant passag		to claim	APPLICATION (Int.Cl.6)
A,P	WO 93 13280 A (JUNCK 8 July 1993 (1993-07 * abstract, details * page 4, line 20 - figures 1-3 *	-08) 1,2,3,14 *	1-12	E04F15/14 E04F15/02 E04F13/08 E04F15/04
A,P	FR 2 691 491 A (GERA 26 November 1993 (19 * page 3, line 5 - p figures 1-8 *	93-11-26)	1-12	
			:	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
				E04F A47G
	The present search report has be	en drawn up for all claims	+	
	Place of search	Date of completion of the search	1	Examiner
	THE HAGUE	15 December 1999	9   Ayi	ter, J
X : parl Y : parl door A : tech O : non	ATEGORY OF CITED DOCUMENTS ioularly relevant if taken alone ioularly relevant if combined with anothe sment of the same category nological background -written disclosure rmediate document	L ; dooument cited	cournent, but publicate in the application for other reasons	shed on, or

## ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 99 20 3328

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

15-12-1999

Patent doou cited in search	ıment h report	Publication date	Patent family member(s)	Publication date
WO 931328	80 A	08-07-1993	CA 2125876 A EP 0624221 A JP 7502580 T	08-07-199 17-11-199 16-03-199
FR 269149	)1 A	26-11-1993	NONE	
			ean Patent Office, No. 12/82	